

Collection No. 197

K. H. L. Key



OLYMPIC

Central & SW. N.S.W. & NW. Victoria

GLAMIS

31. VII - 6. VIII - 1979

DUPLICATE

CARBON BOOK

(Octavo Size)

100 Leaves in Duplicate

NUMBERED

Flexiflat

THERMO-PLASTIC BOUND

Collection in 1977

31. vii - 6. viii. 1979

K. H. L. Fong

Central & S.W. Victoria

N.W. Victoria 3

3117

22284.2 Cemetery. Gentle slope cleared from *Monistria prolifica*, *P. viridis* (f). From *E. albens* to 60ft. *Themeda* with some *Helichrysum spiculatum*. Brown soil.

227.2 Grass fell. Took Barnedman road.

289.4. Turned right on Holy Camp road.

291.9 Stopping place with pale brown soil. *Keyacris marida*.

E. albens to 40ft, with occ. *E. hollockii* & *Callitris endlicheri*.

up to 4ft, dense *Helichrysum* some *peppercorn* to 4ft., less *H. sp.* with green

foliage & large yellow flowers, *Stypandra*

to 18 in., occ. *Hibbertia* & other small shrubs. Some grass. Leaf bitter under

eyes. *Keyacris* associated with *Helichrysum* ^{lower down,}

292.4 Same as 291.9 but ^{lower down,} more of green *Keyacris marida*

Helichrysum & more grass, occ. *E. albens*

303.7 End of road at Mudden mts. *Keyacris marida*

= Trip 145. stop 12457.0. Return.

320.1 Grass fell

1/8.

22320 Leave full deposit for West Wyalong.366.4 Carriage hire.389.5 Marsden.423.6 Wyalong.427.2 West Wyalong.427.7 Turn S left on Newell Hwy.447.3 Alleena.448.7 Return.470.8 West Wyalong depart.508.1 Gilgoin.529.3 Weethalle.564.9 Rankin's Springs.

NB. This day was cold & windy. Several stops were made at sites that had yielded Kyaaris on earlier trips by White et al., but none could be located except one ♀ (lost). It is likely that the conditions kept them completely inactive.

2/8.

22636.9 Leave the depot for Rankin's.

22688.7 Turn left for La Gorce.

695.4. Road to Griffith on left.

696.8. The Gap Dam.

697.0. Found 48 nymphs. (= 767.8)

697.2. Murrumbidgee road on right.

732.0. La Gorce. Return.

751.1. Gentle undulations on red sand.
Keppel's sp. P1082, *Achilium* sp. P.48 (fl.)

Narrow-phyllode *Acacia* & broom bush, 6 ft.

to 8 ft. *Micromyrtus* sp. to 3 ft. *Helichrysum*

apiculatum abundant to 1 ft. mixed
Thysanotus mitchellianus (Nees) S.T. Blake
with a tussock grass (*Neurachne* sp. -

specimen). occ. *Brachycome* sp. Keppel's

associated with *Helichrysum* & grass.

767.5. Murrumbidgee road on left.

767.8. Western end of The Gap Dam. Up - 1 ft.

Monistria discrepans, *Phanacridium* sp. 3,
side of road, where cutting for road has

Achilium sp. P.48
made steep rocky slope. Probably the

original site for P.48 & certainly the site

explored on last trip here. *E. dealbata* (or

Prob. Eucalyptus dwyeri Haussk. & Beakely
dwyeri - spec.) to 20 ft, occ. *E. populnea*

& narrow-phyllode *Acacia* to 15 ft, regrowth

of *Callitris hugelii* to 10 ft. *Dampiera* sp.

to 2 ft in patches. *Helichrysum semipapposum* abundant to 18 in, *H. apiculatum* occ. to 1 ft. *Neurocline* (?) as at last stop. The tussock grasses to 1 ft, abundant. *Cheiranthus*. P48 rather rare, as late nymphs, not noticeably associated with the ferns (probably facultative association only - perhaps for shelter ~~3~~ - see p. 14).

769.4. Road to Griffith on right.

775.8. Turned right for Griffith. At

Kyaeria sp. *Proga*
 in the section: Red-brown sandy loam on low rise. *E. intertexta* to 60 ft, *Calibris longalis* to same, *Acacia* spp. (3), including needle-phyllode one, to 15 ft, occ. *Micranthrus* to 2 ft, *Helichrysum apiculatum* dense at roadside with some grass to 7 in. *Kyaeria* associated with *Helichrysum*.

778.8. Turned left.

779.1. Turned right.

808.1. Turned left (Myall Park road)

816.2. Turned left

823.4. Turned left.

Exhibit, Turn 28 right.

500.4. R.B. Bunker (summit). For *Kuparima*
Kuparima *mauricia*
 Trip 195 to top 13 1119. *Kuparima*

associated with *Helichrysum* ^{Return} *similifolium*

535.9. Extreme base of range, just before

Kuparima *mauricia*
 flattening out to wheat. *E. populnea* to

40ft. & growth of *Callitris hugelii* to 10ft.

Acacia sp. to 12ft, *Cassia* sp. to 6ft.

Red-brown sandy loam. Scattered *Rhagodia*

Rhagodia nutans R.Br.

sp. to 6m (spec.), a little grass. *Kuparima*

associated with *Rhagodia*.

3/8

22871.8. Griffith depart for Goolgowi.

923.6. Goolgowi depart for Hay.

944.0. Road to Carrathool on left.

956.4. Gimbar South.

963.3. Treeless plain with pale brown
 (just past road off to right)

highly self-mulching soil. *Helichrysum*
Kuparima sp. P1006

Leguminosae dense to 18in, with a few

Leptorhynchus panactoides (D.C.) Benth.

patches of *Helichrysum* sp. (spec.) to 10in

or other composites, a little *Perennial*

grass. *Kuparima* on *Leptorhynchus*
~~*Helichrysum*~~ only.

2296.6. Moul Creek

976.6. Beginning road on right.

974.1. Road to Balane road on right

2304.0. Hot heelers grass 2 ft. tall

Pereskia sp. *Keya* sp. P. 1026
 plain with low shrubs for 1/2 ft. of *H. ...*
Leptorhynchus panactoides
 (as last spec. see. some *H. ...*)

Paspalum, abundant dead or young annual
 composites & grasses. *Keya* on
~~*H. ...*~~ *Leptorhynchus*

017.8. Crossed railway (Lilliwia).

036.1. Hay. Took Balane rd road.

059.6. Hot heelers plain with 1/2 ft. tall

Keya sp. P. 1026
 with *H. ...* *Kochia aphylla* &

Leptorhynchus panactoides
 (as last spec.) to 1 ft. tall.

see. *Paspalum* sp. other composites, & dead
 grass. *Keya* is abundant on ~~*H. ...*~~ *Leptorhynchus*

071.9. Clear hope road to left.

094.2. Road to Moulmein on left. Collecting
 ceased for day.

172.2 Balane rd.

NB. The section from Triffith to
 Moulmein is mainly *Callitris hugelii*

1. *E. populnea*, very flat on a light
 red-brown sandy loam, with a good
 grass cover. Most of it is under irrigation.
 Similar country extends some way
 from Goolgowi to where the self-
 mulching soils begin around Yamba.
 A few stops in places where there was
 some growth of *Bassia* & *Kochia*
 under mallee near Goolgowi & also
 to Kyarris & other mallee areas. It
 seems likely that this country is a
 barrier between the area to the
 north & east occupied by P108a & P107/108
 and the plains occupied by P108b.

4/8.

251/73.8. Go to bank to deposit.

253.2. Turned left for Robinsonale.

256.9. Robinsonale. Took Sea Lake road.

270.6. Turned right into Murray Valley Hwy.
Keyacris sp. P141, *Crotaphytus* sp. 1 to 20 ft.
 Flat with red-brown sandy loam. Mallee

with occ. *Cassinia* *cristata* to 30 ft.

Cassia sp. & *Proelia* sp. to 4 ft. *Olearia* sp.

at Kochi a p. ground on (?) to 2 ft. *Zagubia flamm.*
Vittadinia sp. (spec.)
 sp., *Cassia* sp. (?) & a *Vittadinia* (spec.)
 to 9 in. a little grass. *Keiskeia* ^{as far as} associated
 with *Vittadinia*.

272.0 Turned right for Hattah (right fork)

327.1 Hattah Turned south on Calcutta Hwy

332.2 Return

336.9 Hattah

356.5 Kowangi

373.0 Carnarvon

394.9 Flat with brown soil. *Cassia*
Cratichneumon sp. 1.

to 2 ft. with *Myoporum* sp. to 10 ft.

Cassia spp. to 4 ft. a prickly *Grass*

indica sp., *Vittadinia* sp.

397.2 *Erythraea*

5/6

23412.3 Buronga depart

416.5 Gal Gal.

429.4 Monax.

438.8 Road to Parung on right

442.1 Euston depart

572.7 Bullockvale

590.9 Way back road.

600.3 Flat treeless plain with very self -
Kuyavia sp. P1026

very soil. Kochia aphylla to 1 ft & same

Leptorhynchos
~~Halimolobos~~ as before to 1 in. Kuyavia in

in same association. numerous.

610.9 Road to Mountain on right.

620.4 Flat treeless plain with very self -
Kuyavia sp. P1026

very rich soil. Astragalus scholieri & occ.

Kochia aphylla to 5 ft, Kochia aphylla

Leptorhynchos
to 2 ft & ~~Halimolobos~~ as before to 1 ft.

common grass to 4 in. Kuyavia in

same association.

650.8 Road to Mountain on right.

700.7 Hay.

6/8

709.6 Hay depart for Darlington Point

820.7 Darlington Point. Took road to Griffith

838.9 Flat treeless plain with brown self -
Kuyavia sp. P1026

rich soil - lined by Acacia pendula &

Mim. E. laeviflorus. Stipa aristiglumis to

5 ft. with patches lacking this, where

Leptorhynchos
~~Halimolobos~~ sp. (as before road Hay) to

100m. north of the Kossia grassy plain
 Sand Sarcola R. & *Echinum plantaginum*
 see. Vittadini. *Leptostychnos*
Kyacors on ~~Helicogramma~~

843.5. Crossed railway.

846.5. Giff H. Return on Ardathian road

N.B. Up to 843.5 *Leptostychnos*
~~in the grass~~ was
 frequently seen. The after the paddocks
 were intensively grazed or cropped.

Although until Harnwood the community
 was still dominated by *A. pindula*.

866.7. Giff H. depart.

874. Road to Barry's Scenic Drive on left

897.3. Ringa.

907.5. Giff H. road.

920.4. Barrellam.

930.5. Mombrood.

937.4 = Trip 195 stop 12773.9. Road crossing
Kyacors sp. P1082

Left & right. *Kyacors* on *Helicogramma*
~~in the grass~~ & *H. apiculatum*

940.8. Road to Narrandera on right.

941.4. Kamarath.

954.1. Ardathian.

Visit 1. Ardennes - 1980

Visit 2. 1981

General Comments

1. The great majority of the stops yielded no grasshoppers - only a few notes were made.
2. The season of the visit & weather that day were too early in the season for the available adults or late nymphs while practically no other grasshoppers were available & only a few species were present (in low numbers) as nymphs.
3. The weather was mostly cold & cloudy after the first (warm) day. Thus some apparent absences may have merely represented a fairer ~~the~~ to fly at, especially in the first half of the morning.
4. Copulating pairs were relatively frequent in *K. maculata* & P108a, but none were seen in P108b, even though

This species was relatively much the
 most abundant & was also more
 advanced, few immatures being seen.
 5. Eggs were made at most of the
 positions & sent into for Kiyama &
 Puss, including that at Nowingi.
 G. I discussed subsequently with
 him as to the question of the
 association of Puss with *Chlamydomonas*.
 He said that at the time he had noted
 this association, the fern was almost
 the only green plant available.
 That he had been able to maintain the
 insect alive on ferns in the greenhouse.
 However, he was quite prepared to
 accept the possibility that the
 association might be facultative &
 non-obligate.